

I CLAIM AS MY INVENTION:

Sub
a' → 1. A cooling device for cooling an engraving system of an engraving device for engraving printing forms, comprising:

a plurality of engraving heads respectively carried by supports; and
a plurality of cooling units substantially complete in and of themselves, where respectively one cooling unit is allocated to one engraving head.

2. The cooling device of claim 1 wherein each cooling unit contains a heat pipe whose one end projects into a region of an engraving head.

3. The cooling device according to claim 2 wherein the heat pipes have a liquid medium flowing through them.

4. The cooling device of claim 2 wherein heat pipes have a gaseous medium flowing through them.

5. The cooling device according to claim 1 wherein the cooling device employs rapid action couplings to connect at least two heat exchangers of the cooling device to one another, at least one thereof being connected to the engraving system.

6. The Cooling device of claim 5 wherein the rapid action couplings are attached to the supports.

7. The cooling device of claim 1 wherein the cooling device comprises at least one cooling circulation connecting at least two heat exchangers of the cooling device to one another, at least one thereof being connected to the engraving system.

8. The cooling device of claim 1 wherein the cooling device is flooded with air.

9. The cooling device according to claim 1 wherein the engraving device comprises a printing form cylinder for rotogravure.

10. A method for cooling an engraving system of an engraving device for engraving printing forms comprising the steps of:

providing the engraving system with a plurality of engraving heads respectively carried by supports; and

individually cooling each engraving head with its own cooling unit.

11. The method according to claim 10 including the step of providing each cooling unit with a heat pipe having one end projecting into a region of an engraving head.

12. The method according to claim 11 including the step of providing the heat pipes with a gaseous medium flowing therethrough.

13. The method according to claim 11 including the step of having a gaseous medium flow through the heat pipes.

14. The method according to claim 10 including the step of providing rapid action couplings in the cooling device for connecting at least two heat exchangers of the cooling device to one another, at least one thereof being connected to the engraving system.

15. The method according to claim 14 wherein the rapid action couplings are attached to the supports.

16. The method according to claim 10 including the step of having at least one cooling circulation connecting at least two heat exchangers of the cooling device to one another, at least one thereof being connected to the engraving system.

17. The method according to claim 10 including the step of flooding the cooling device with air.